M

	Application No.	Applicant(s)
Notice of Allowability	10/720,692	MURAKAMI ET AL.
	Examiner	Art Unit
	Heather A. Doty	2813
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this ap or other appropriate communicatio GHTS. This application is subject	oplication. If not included n will be mailed in due course. THIS
1. A This communication is responsive to the amendment dated	1 2/24/2006.	
2. \boxtimes The allowed claim(s) is/are <u>1,2 and 5-15</u> .		
 Acknowledgment is made of a claim for foreign priority un a)	been received. been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
 A SUBSTITUTE OATH OR DECLARATION must be submi INFORMAL PATENT APPLICATION (PTO-152) which give 		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.	
(a) including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO	9-948) attached
1) I hereto or 2) to Paper No./Mail Date		•
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the	Office action of
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the		
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I 	sit of BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGIC	must be submitted. Note the CAL MATERIAL.
Attachment(s)		
1. Notice of References Cited (PTO-892)	<u> </u>	Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Da	
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 		Iment/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	9.	CARL WHITEHEAD, JR. ERVISORY PATENT EXAMINER ECHNOLOGY CENTER 2800

DETAILED ACTION

Allowable Subject Matter

Claims 1, 2, and 5-15 are allowed.

The following is an examiner's statement of reasons for allowance:

Prior art does not teach or suggest, in combination with the other claimed limitations, that the electrode-forming sheet contains an alcohol-based solvent having 2 to 10% by weight of the electrode-forming sheet in the electrode-forming sheet while joining the electrode-forming sheet to a collector that has an adhesive on it.

Shibuya et al., the closest prior art of record, teaches adding alcohol to activated carbon, conductive carbon, and binder to form an electrode-forming sheet, but does not expressly teach that the electrode-forming sheet contains 2 to 10% by weight of alcohol when it is joined to the collector. As pointed out by Applicant, Shibuya et al. expressly teaches that there is very little moisture in the electrode-forming sheet (paragraph 0008), so it would not be obvious to optimize the amount of alcohol to arrive at Applicant's claimed range of 2 to 10% by weight, particularly since Applicant additionally teaches the criticality of using an alcohol content within this range (Figs. 2 and 3) for the purposes of the instant invention.

Ishikawa et al. (U.S. 6,638,385) also teaches adding alcohol to a carbonaceous material and a binder to form an electrode for an electric double-layer capacitor, but then teaches drying the electrode-forming sheet to remove some or all of the alcohol, and does not teach that 2 to 10% by weight alcohol remains in the electrode-forming sheet when it is joined to the collector.

Application/Control Number: 10/720,692

Art Unit: 2813

Finally, Matsumoto et al. (JP 2000-323131) teaches forming a battery comprising the step coating a conductive electrode base material onto an electrode, wherein the conductive electrode base material comprises an active material and/or a conductive material, a binder, and a solvent, and then drying the coating until the content of the alcohol-based solvent becomes 10% by weight of the coating. However, Matsumoto et

al. does not teach that the solvent is alcohol-based. Furthermore, this invention is not

directed toward an electric double-layer capacitor, and the electrode formed in this

manner is joined to a second electrode via an electrolytic layer, instead of to a collector

sheet having a conductive adhesive, as claimed in the instant application.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Heather A. Doty, whose telephone number is 571-272-8429. The examiner can normally be reached on M-F, 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead, Jr., can be reached at 571-272-1702. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2813

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

had